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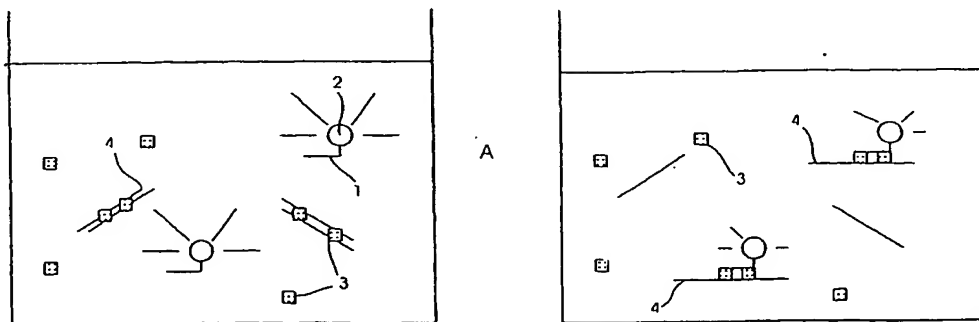
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(54) Title: DETECTION SYSTEM



(57) Abstract: A method for detecting the presence of a target nucleic acid sequence in a sample, said method comprising: (a) adding to a sample suspected of containing said target nucleic acid sequence, a fluorescently labelled probe specific for said target sequence, and DNA duplex binding agent which can absorb fluorescent energy from the fluorescent label on the probe but which does not emit visible light, (b) subjecting the thus formed mixture to an amplification reaction in which target nucleic acid is amplified, (c) subjecting said sample to conditions under which the said probe hybridises to the target sequence, and (d) monitoring fluorescence from said sample. This method can be used for example to monitor amplification reactions such as PCR reactions, such that the amount of target sequence present in the sample may be determined. Additionally or alternatively, it may be used to generate duplex destabilisation data such as melt hysteresis information for amplification monitoring or for detection and quantification of polymorphisms or allelic variation, and so is useful in genetic diagnosis.

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